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Exam : **CPA-21-02**

Title : CPA – C++ Certified
Associate Programmer

Version : DEMO

1.What will the variable "age" be in class B?

```
class A {
    int x;
protected:
    int y;
public:
    int age;
    A () {age=5;};
};
class B: public A {
    string name;
public:
    B () {name="Bob";};
    void Print () {
        cout << name << age;
    }
};
```

- A. public
- B. private
- C. protected
- D. None of these

Answer: A

2.What happens when you attempt to compile and run the following code?

```
#include <iostream>
#include <string>
using namespace std;
class complex{
    double re, im;
public:
    complex() : re(1),im(0.4) {}
    complex operator?(complex &t);
    void Print() { cout << re << " " << im; }
};
complex complex::operator? (complex &t){
    complex temp;
    temp.re = this?>re ? t.re;
    temp.im = this?>im ? t.im;
    return temp;
}
int main(){
    complex c1, c2, c3;
    c3 = c1 ? c2;
    c3.Print();
}
```

- ```
}
```
- A. It prints: 1 0.4
  - B. It prints: 2 0.8
  - C. It prints: 0 0
  - D. It prints: 1 0.8

**Answer: C**

3.What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
class complex{
 double re;
 double im;
public:
 complex() : re(0),im(0) {}
 complex(double x) { re=x,im=x;};
 complex(double x,double y) { re=x,im=y;}
void print() { cout << re << " " << im;}
};
int main(){
 complex c1;
 c1 = 3.0;
 c1.print();
 return 0;
}
```

- A. It prints: 0 0
- B. It prints: 1 1
- C. It prints: 3 3
- D. Compilation error

**Answer: C**

4.What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
void fun(int);
int main()
{
 int a=0;
 fun(a);
 return 0;
}
void fun(int n)
{
 if(n < 2)
```

```
{
 fun(++n);
 cout << n;
}
```

- A. It prints: 21
- B. It prints: 012
- C. It prints: 0
- D. None of these

**Answer: A**

5.What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
int s(int n);
int main()
{
 int a;
 a = 3;
 cout << s(a);
 return 0;
}
int s(int n)
{
 if(n == 0) return 1;
 return s(n-1)*n;
}
```

- A. It prints: 4
- B. It prints: 6
- C. It prints: 3
- D. It prints: 0

**Answer: B**